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Critical Challenges.
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WEB-BASED LIQUIDS GATHERING PIPELINE TECHNOLOGY DATABASE

Proposal Summary to OGRP

Bismarck, ND

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Critical Challenges. Practical Solutions.

Proposal Summary

- Expand original scope of legislatively directed “Produced Fluids Gathering Pipeline Study.”
  - Create, populate and maintain a Web-based database to facilitate matches between commercially available pipeline technology and the needs of ND liquids gathering pipeline operators (similar to highly-touted flaring alternatives database)
  - Include one additional, newly identified industrial partner and leak detection technology in underway pipeline leak detection system demonstration project.
- Overarching goal
  - Bridge the gap in understanding between capabilities claimed by vendors of pipeline technology and true operational needs of gathering pipeline operators.

Project Expected Results

- Encourage and facilitate adoption of commercially available and emerging technologies by liquids gathering pipeline operators in ND
  - Attain improvements in leak/spill incidents, volumes, and environmental impacts.
- Serve to inform policy makers on technical issues related to suitability (or unsuitability) of various technologies to specific applications on liquids gathering pipeline designs
  - Help to better understand the claims made by many vendors in this space.

Project Scope of Work

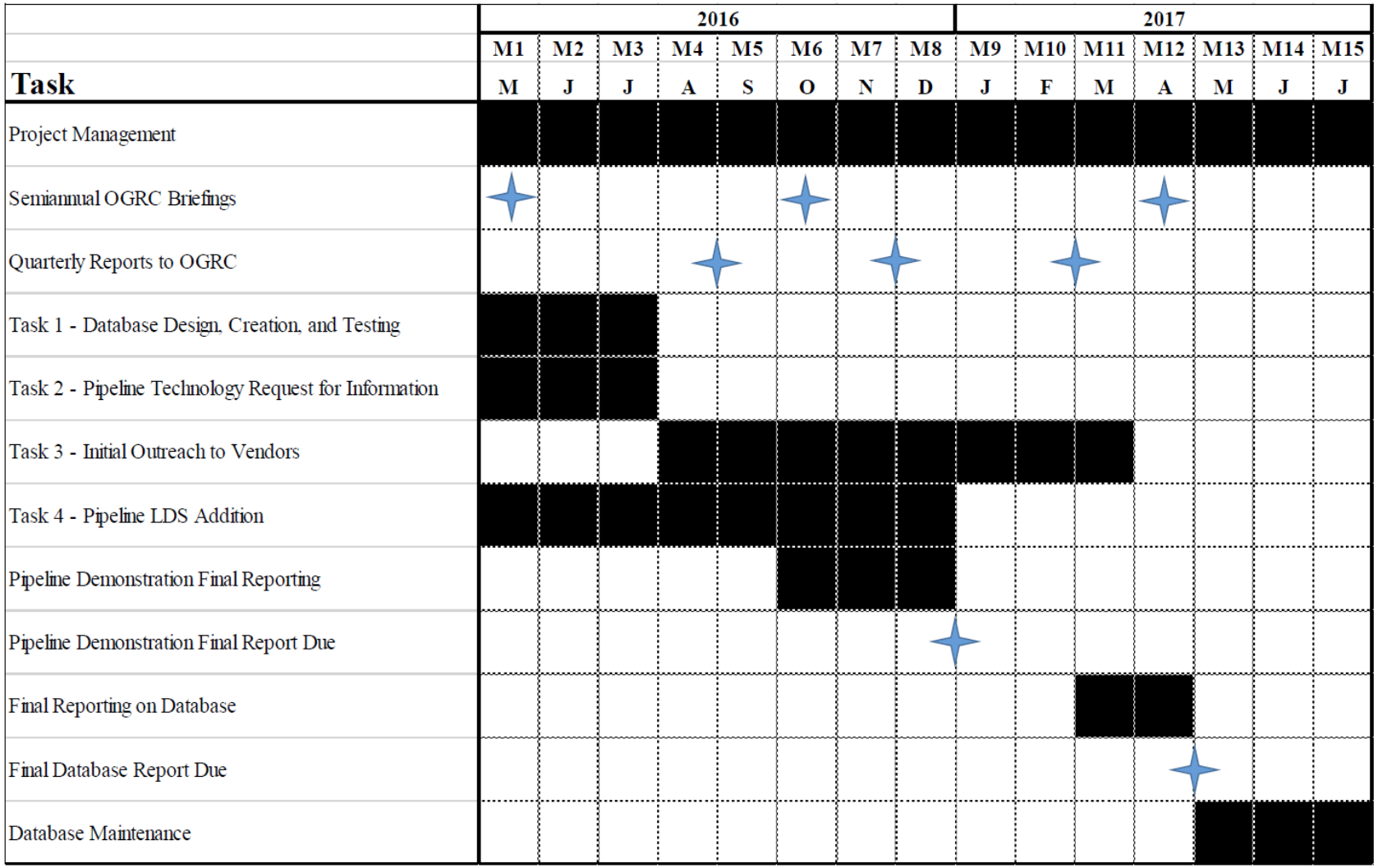
- Task 1 – Database Design, Creation, and Testing
- Task 2 – Pipeline Technology Request for Information
- Task 3 – Initial Outreach to Vendors
- *Sustained Database Management and Outreach (future industry funding)*

- Task 4 – Inclusion of Annular Space Pipeline Leak Detection System into Pipeline Leak Detection Pilot Demonstration Project

Pipeline Demonstration Expansion

Partner	Partner Status	Sector	Fluid Carried	Pipeline Material	Leak Detection Technology
A	Existing	Oil Producer	Produced Water	Fiberglass	In-house computational modeling (CPM)
B	Existing	Pipeline Operator	Produced Water	High-Density Polyethylene	In-house CPM vs. 3rd-party CPM
C	Existing	Oil Producer	Crude Oil	Steel	TBD (multiple)
D	Proposed	Pipeline Operator	Produced Water	Composite	In-house CPM + annular space leak detection

Project Schedule



Project Budget

CATEGORY		BUDGET
Total Labor	$	216,485
Travel	$	8,818
Supplies	$	753
Other*	$	2,625
Laboratory Fees & Services		
Graphics Service	$	626
Research Information Service	$	19,252
Total Project Cost – U.S. Dollars	$	248,559

CONTACT INFORMATION

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